

# Environment Testing TestAmerica

# ANALYTICAL REPORT

Eurofins TestAmerica, Phoenix 4625 East Cotton Ctr Blvd Suite 189 Phoenix, AZ 85040

Tel: (602)437-3340

Laboratory Job ID: 550-129989-1

Client Project/Site: Firtst Mesa Consolidated Villages 54629

For:

Mohave Environmental Laboratory 2580 Landon Dr

Suite A

Bullhead City, Arizona 86429

Attn: Sheila Poff

Authorized for release by:

9/26/2019 2:16:35 PM

Mary Charlson, Project Manager I (602)437-3340

mary.charlson@testamericainc.com

..... LINKS ......

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Visit us at: www.testamericainc.com This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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#### **Definitions/Glossary**

Client: Mohave Environmental Laboratory

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Project/Site: Firtst Mesa Consolidated Villages 54629

Job ID: 550-129989-1

Glossary	
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QC RER

RL RPD

TEF

TEQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	e de la companya del companya de la companya de la companya del companya de la co
CFL	Contains Free Liquid	
CNF	Contains No Free Liquid	LO.
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	<b>1</b> 3
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC.	Minimum Detectable Concentration (Radiochemistry)	A Part of the Part
MDL	Method Detection Limit	3%
ML	Minimum Level (Dioxin)	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	i i
PQL	Practical Quantitation Limit	i.

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#### **Case Narrative**

Client: Mohave Environmental Laboratory

Project/Site: Firtst Mesa Consolidated Villages 54629

Job ID: 550-129989-1

Job ID: 550-129989-1

Laboratory: Eurofins TestAmerica, Phoenix

Narrative

Job Narrative 550-129989-1

Comments

No additional comments.

Receipt

The samples were received on 9/19/2019 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.8° C.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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### Sample Summary

Client: Mohave Environmental Laboratory

Project/Site: Firtst Mesa Consolidated Villages 54629

Job ID: 550-129989-1

		The second secon				
Lab Sample ID	Cilent Sample ID	Matrix	Collected	Received	Asset ID	
550-129989-1	EP001/East Well #8 (54629-01)	Drinking Water	09/17/19 09:30	09/19/19 09:30		
	· · · · · · · · · · · · · · · · · · ·	Drinking Water	09/17/19 09:13	09/19/19 09:30		
550-129989-2	EP002/West Well #5 (54629-02)	Dillining trace	•••			

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#### **Detection Summary**

Client: Mohave Environmental Laboratory

Project/Site: Firtst Mesa Consolidated Villages 54629

Job ID: 550-129989-1

Client Sample	2 35%	Now 2006 600 200 " " 25 25 W. " " " " " " " " " " " " " " " " " "	2 - 28 -44.23	12° 92° 93° 838 3
1 3 1 m 20 4 8 m 200 20 20 20	3882	200 80 8 8 8 8 8 8 7 8 8 800 °C 8 800 °C 8 80	3 C3 8 8 X 2 2 4	6 **3 £3,8*3 Ø **3 ~ 8 8 8 8 8
8 . 20 2	88.9.	* 0. 4 X 4 X 4 X 5 4 X 5 4 X 5	8 82 83 38 83	8 20 m 8 20 20 20 20 20 20 20 20 20 20 20 20 20
PARK PARK PARK DAKEN KA	9 WHY 15	MARK ALL OF A YOUR WATER AT 15 Y		V

Lab Sample ID: 550-129989-1

Analyte	Result	Qualifier	RL	Unit	DII Fac	D	Method	Prep Type
Arsenic	0.018		0.0010	 mg/L	1		200.8	Total/NA

Client Sample ID: EP002/West Well #5 (54629-02)

Lab Sample ID: 550-129989-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.018		0.0010	 mg/L	1		200.8	Total/NA

This Detection Summary does not include radiochemical test results.

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#### **Client Sample Results**

Client: Mohave Environmental Laboratory

Project/Site: Firtst Mesa Consolidated Villages 54629

Job ID: 550-129989-1

Lab Sample ID: 550-129989-1

Matrix: Drinking Water

Client Sample ID: EP001/East Well #8 (54629-01) Date Collected: 09/17/19 09:30

Date Received: 09/19/19 09:30

Method: 200.8 - Metals (ICP/MS) Analyte

Result Qualifier Arsenic

Client Sample ID: EP002/West Well #5 (54629-02)

RL 0.0010 Unit mg/L

Prepared 09/20/19 17:45 09/21/19 06:48

Analyzed

Dil Fac

Lab Sample ID: 550-129989-2

Matrix: Drinking Water

Date Received: 09/19/19 09:30

Method: 200.8 - Metals (ICP/MS) Analyte

Arsenic

Date Collected: 09/17/19 09:13

Result Qualifier 0.018

RL 0.0010 Unit mg/L D

Prepared 09/20/19 17:45 09/21/19 06:50

Analyzed

Dil Fac

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#### QC Sample Results

Client: Mohave Environmental Laboratory

Project/Site: Firtst Mesa Consolidated Villages 54629

Job ID: 550-129989-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 550-190215/1-A

Matrix: Water

Analysis Batch: 190393

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 190215

Analyzed Dil Fac D Prepared Unit RL Result Qualifier Analyte 09/20/19 17:45 09/21/19 06:22 mg/L 0.0010 < 0.0010 Arsenic

Lab Sample ID: LCS 550-190215/3-A

Matrix: Water

Analysis Batch: 190393

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Prep Batch: 190215

%Rec.

Limits %Rec Unit Added Result Qualifier Analyte mg/L 93 85 - 115 0.0926 0.100 Arsenic

Spike

0.100

Lab Sample ID: LCSD 550-190215/4-A

Matrix: Water

Analyte

Arsenic

Analyte

Arsenic

Analyte

Arsenic

Analysis Batch: 190393

LCSD LCSD Spike Added

%Rec Result Qualifier Unit mg/L 92 Prep Type: Total/NA Prep Batch: 190215 RPD %Rec.

Limit Limits RPD ō 20 85 - 115

Lab Sample ID: 550-129221-A-2-B MS

Matrix: Water

Analysis Batch: 190393

Sample Sample Spike Result Qualifier Added

MB MB

MS MS Result Qualifier

0.101

0.0922

LCS LCS

%Rec Unit

Prep Type: Total/NA Prep Batch: 190215

Prep Type: Total/NA

%Rec.

92

95

Client Sample ID: Matrix Spike Duplicate

Limits 70 - 130

Client Sample ID: Matrix Spike

Lab Sample ID: 550-129221-A-2-C MSD

Matrix: Water

Analysis Batch: 190393

Sample Sample Result Qualifier 0.0095

0.0095

Spike Added 0.100

0.100

MSD MSD Result Qualifier 0.104

Unit D %Rec mg/L

mg/L

Prep Batch: 190215 %Rec. Limits 70 - 130

Limit RPD 3

RPD

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#### **QC Association Summary**

Client: Mohave Environmental Laboratory

Project/Site: Firtst Mesa Consolidated Villages 54629

Job ID: 550-129989-1

#### Metals

Prep Batch: 190215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-129989-1	EP001/East Well #8 (54629-01)	Total/NA	Drinking Water	200.8	
550-129989-2	EP002/West Well #5 (54629-02)	Total/NA	Drinking Water	200.8	
MB 550-190215/1-A	Method Blank	Total/NA	Water	200.8	
LCS 550-190215/3-A	Lab Control Sample	Total/NA	Water	200.8	
	Lab Control Sample Dup	Total/NA	Water	200.8	
LCSD 550-190215/4-A	Matrix Spike	Total/NA	Water	200.8	
550-129221-A-2-B MS 550-129221-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	· · · · · · · · · · · · · · · · · · ·

#### Analysis Batch: 190393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-129989-1	EP001/East Well #8 (54629-01)	Total/NA	Drinking Water	200.8	190215
550-129989-2	EP002/West Well #5 (54629-02)	Total/NA	Drinking Water	200.8	190215
MB 550-190215/1-A	Method Blank	Total/NA	Water	200.8	190215
	Lab Control Sample	Total/NA	Water	200.8	190215
LCS 550-190215/3-A	•	Total/NA	Water	200.8	190215
LCSD 550-190215/4-A	Lab Control Sample Dup	Total/NA	Water	200.8	190215
550-129221-A-2-B MS	Matrix Spike		Water	200.8	190215
550-129221-A-2-C MSD	Matrix Spike Duplicate	Total/NA	vvalei	200.0	1002.10

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#### Lab Chronicle

Client: Mohave Environmental Laboratory

Project/Site: Firtst Mesa Consolidated Villages 54629

Client Sample ID: EP001/East Well #8 (54629-01) Date Collected: 09/17/19 09:30

Analyst Lab

Batch Prepared Dilution Batch Batch Number or Analyzed Factor Method Run Prep Type Type TAL PHX MGM 190215 09/20/19 17:45 200.8 Prep Total/NA TAL PHX 190393 09/21/19 06:48 SRA Analysis 200.8 Total/NA

Client Sample ID: EP002/West Well #5 (54629-02)

Lab Sample ID: 550-129989-2

Lab Sample ID: 550-129989-1

Matrix: Drinking Water

Job ID: 550-129989-1

Matrix: Drinking Water

Date Collected: 09/17/19 09:13 Date Received: 09/19/19 09:30

Date Received: 09/19/19 09:30

		Batch	Batch		Dilution	Batch	Prepared		
			Method	Run	Factor	Number	or Analyzed	Analyst	Lab
ì	Prep Type	Туре	200.8			190215	09/20/19 17:45	MGM	TAL PHX
	Total/NA	Prep	*** *, - · · -		1	190393	09/21/19 06:50	SRA	TAL PHX
	Total/NA	Analysis	200.8		,	.50000			

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Laboratory References:

TAL PHX = Eurofins TestAmerica, Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

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9/26/2019

ED\_005149\_00041598-00010

## **Accreditation/Certification Summary**

Client: Mohave Environmental Laboratory

Project/Site: Firtst Mesa Consolidated Villages 54629

Job ID: 550-129989-1

Laboratory: Eurofins TestAmerica, Phoenix
Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority Arizona		ogram ate Program	Identification Number AZ0728	Expiration Date 06-09-20
The following analytes the agency does not or		ort, but the laboratory is r	not certified by the governing authority	. This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
Nevada	St	ate Program	AZ01030	07-31-19 *
The following analytes the agency does not o	are included in this repo	ort, but the laboratory is r	not certified by the governing authority	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	

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<sup>\*</sup> Accreditation/Certification renewal pending - accreditation/certification considered valid.

### **Method Summary**

Client: Mohave Environmental Laboratory

Project/Site: Firtst Mesa Consolidated Villages 54629

Job ID: 550-129989-1

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N 0 4 7 1	Method Description	Protocol	Laboratory
Method		EPA	TAL PHX
200.8	Metals (ICP/MS)	ErA	
200.0		EΡΔ	TAL PHX
200.8	Preparation, Total Metals	LIA	

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL PHX = Eurofins TestAmerica, Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

Eurofins TestAmerica, Phoenix

1746) Derian Avonce, Suite 100, Irvine CA 92614-5817 (949) 261-1027 /FAX (949) 260-3297 4623 E. Colton Center Hvd., Suite 189, Phoenix, AZ 85940 (602) 437-3340 /FAX (602) 659-7622

0 2

		Of this project	analyses performed on this project	nd en) additional ar	dy form a	is chain of custo er 30 days.	wices requested on the	for the sea	lient agrees to pay a date of invoice. S	America, c lays from th	Note: By relinquishing samples to Tost America, client agrees to pay for the services requested on this chain of custody form and any additional Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.	Paymen
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			***************************************		***********	alabs.com	sheila@mohavelabs.com	Email				***************************************
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#### Login Sample Receipt Checklist

Client: Mohave Environmental Laboratory

Job Number: 550-129989-1

Login Number: 129989

List Source: Eurofins TestAmerica, Phoenix

List Number: 1 Creator: Doerr, Bret C

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td>**</td>	True	**
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	Check done at department level as required.



Address & O. Client // RST City, State & Zip FOLACCA SW = Surface Water WW = Wastewater DW = Drinking Water MW = Monitoring Well C = Composite 切のストスをひ (3) VIRIL Instructions/Comments/Permit Numbers: Number of Containers: Temperature Z. CC PER AN Spring Guesto Mill. SAMPLE RECEIPT FOCATION MESA CONFOLIORIZO SAMPLE TYPE CODES 09V Y08 LOTE CATOS Charact WELL Relinguished By: Relinquiched Relinquished By: Relinquished B HW = Hazardous Waste SO = Soil SD = Solids G = Grab BILLI DATE 2 24098 9:13/ Report to TIME 20 DIACO Bullhead City, AZ 86429 Fax (928) 754-8103 Tel (928) 754-8101 sheila@mohavelabs.com 2580 Landon Dr. BEFORE No. CONTAINERS 7 COMPOSITE/GRAB (C/G) 0 O ADEQ Z 8 SAMPLE TYPE Unpreserved Emailsakury, a Xex Phone 928) 737-2670 Ą Sodium Thiosulfate Holbrook, AZ 86025 PRESERVATIVE scott@mohavelabs.com Tel (928) 524-4635 928) 737 - 2547 Sodium Hydroxide SEPTEMBER TP X Nitric Acid Sulfuric Acid Hydrochloric Acid DALLOS. Marghet II Received By: NDEP Received in Lab By: Received By: ARESVIC COM Requested Turnaround Date SEPTEMBER 29.20 Project Name HRESNIC Sampler's Name REQUESTED ANALYSIS LABID\_54629 ALFONSO SAKENA JA. Page でいっクターは位に Date/Times/////// Date/Time: V Date/Time: ا چ SUMPUNO Ó